

Patent Application Serial No. 09/599,269  
Rose

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C1  
--1. (twice amended) A pleated filter cartridge for removing particulates from liquid, the pleated filter cartridge being of the type including a perforate core, a pair of endcaps, and an annular non-woven filter element around the core formed by substantially axially-parallel pleats of at least one sheet of filter material, the filter element having opposite ends each in sealing engagement with one of the endcaps, characterized in that the filter material is a non-perforated non-woven material of flash-spun plexifilamentary high-density polyethylene fibrils, the filter material having a thickness of less than about 0.15 mm, a pressure drop of less than 4 psid at a flow rate of 10 gal/hr, and a filtration efficiency of at least 98% of 1-2 micron particulates at a pressure differential of 30 psid.--

Cancel claim 5 without prejudice.

Rewrite claim 6 to read as follows:

C2  
--6. (amended) The pleated filter cartridge of claim 1 wherein the filter material has a thickness less than or equal to about 0.13 mm.--

Cancel claim 8 without prejudice.

Rewrite claim 9 to read as follows:

C3  
--9. (amended) The pleated filter cartridge of claim 7 wherein the filter material has a thickness less than or equal to about 0.13 mm.

Rewrite claim 17 to read as follows:

C4  
--17. (amended) The pleated filter cartridge of claim 14 wherein the softening temperature range of the polyethylene mesh is within the range of 170-195° F.--

Rewrite claim 23 to read as follows:

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CB --23. (amended) An annular pleated filter element for removing particulates from liquid formed by substantially parallel pleats of at least one sheet of filter material and a mesh layer of a low-density polyethylene, wherein the filter material is a non-perforated non-woven material of flash-spun plexifilamentary high-density polyethylene fibrils, the filter material having a thickness of less than about 0.15 mm, a pressure drop of less than 4 psid at a flow rate of 10 gal/hr, and a filtration efficiency of at least 98% of 1-2 micron particulates at a pressure differential of 30 psid.--

Rewrite claim 27 to read as follows:

CE --27. (amended) The annular pleated filter element of claim 24 wherein the softening temperature range of the polyethylene mesh is within the range of 170-195° F.--

Cancel claim 28 without prejudice.

Rewrite claim 29 to read as follows:

CE --29. (amended) The pleated filter cartridge of claim 23 wherein the filter material has a thickness less than or equal to about 0.13 mm.--

Rewrite claims 30 and 31 to read as follows:

CE --30. (amended) The pleated filter cartridge of claim 1 wherein the at least one sheet of filter material is a single sheet of the filter material, whereby the total thickness of the filter material is less than about 0.15 mm.--

--31. (amended) The pleated filter cartridge of claim 23 wherein the at least one sheet of filter material is a single sheet of the filter material, whereby the total thickness of the filter material is less than about 0.15 mm.--